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VOL. III.

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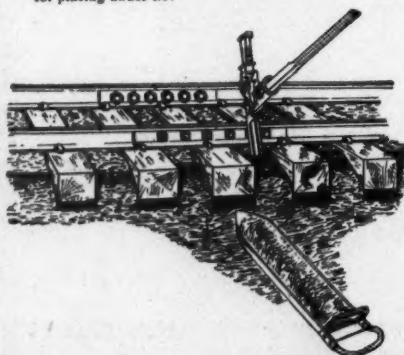
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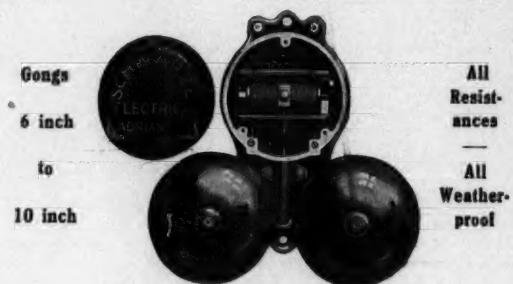
FIG. 2—Showing pan removed, ballast under tie, and cleaner ready to be withdrawn.



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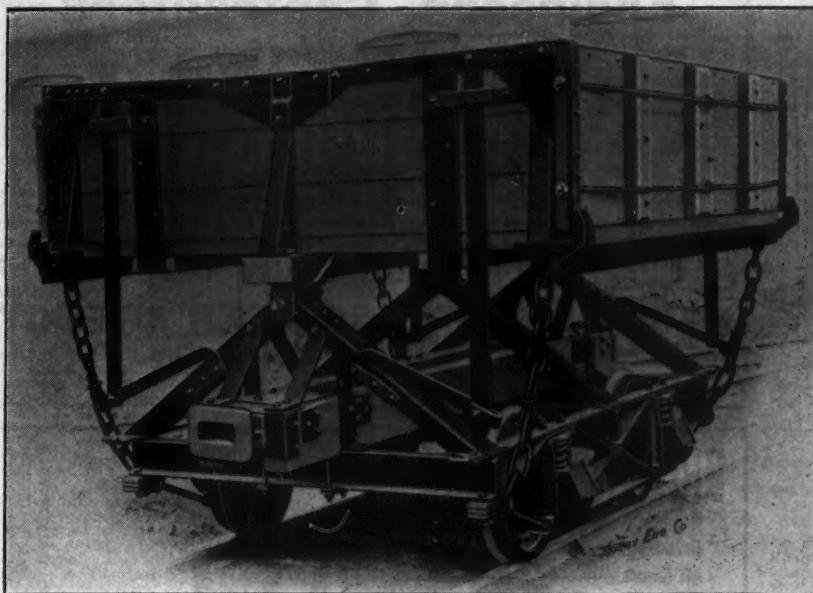
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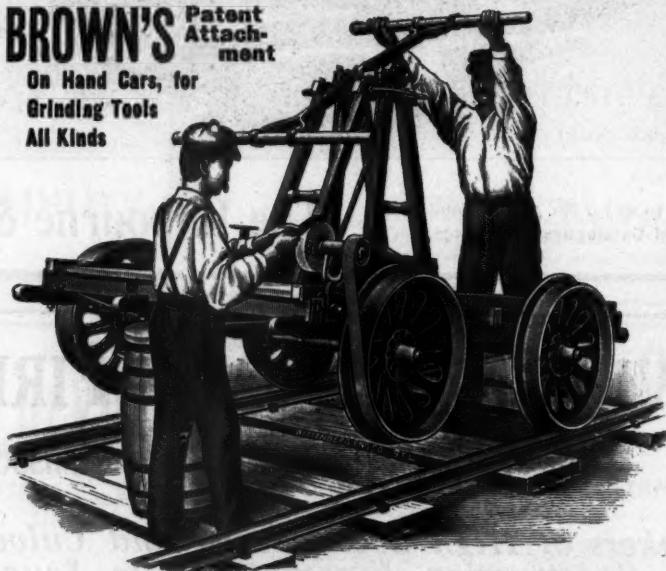
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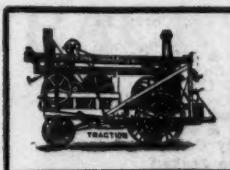
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5

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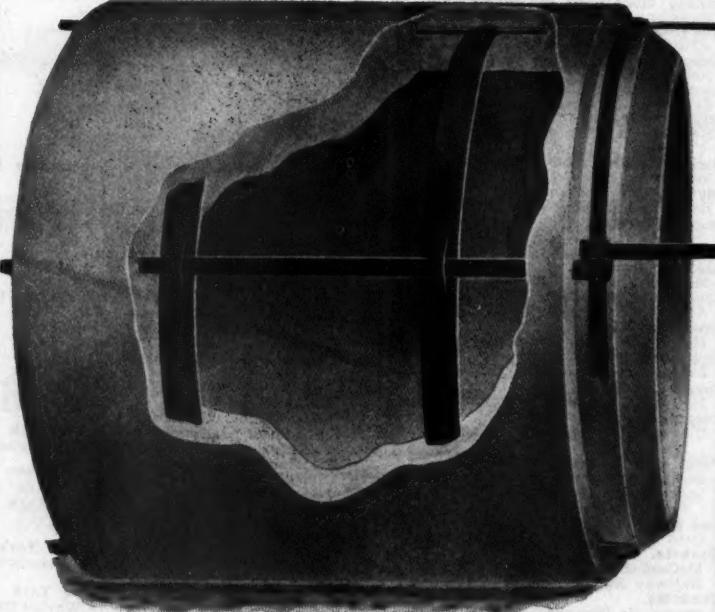
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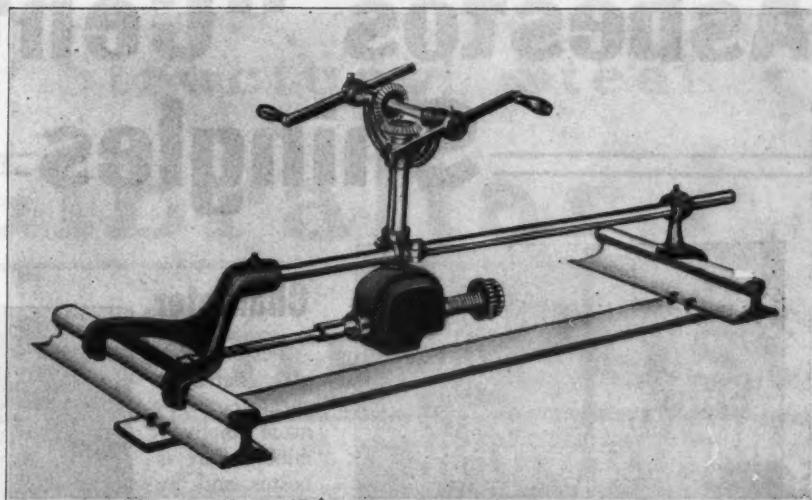
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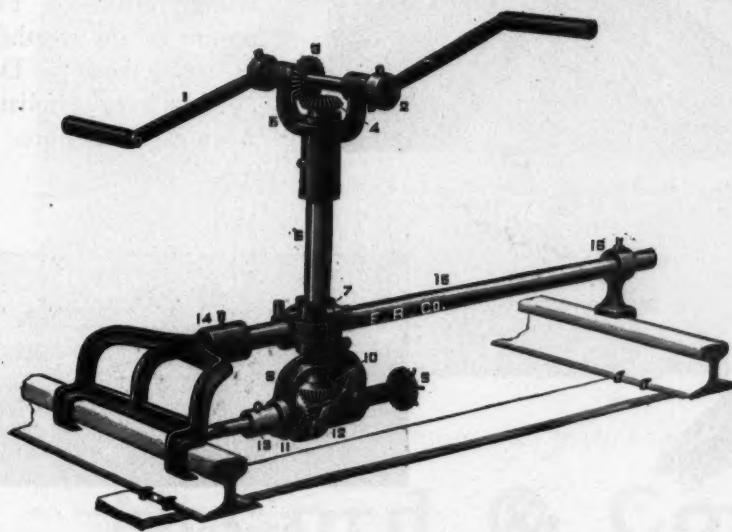
as a quick return of spindle by reversing the cranks, and the drill backs out much faster than could possibly be done any other way. It is adjustable in every way that is required of this kind of a machine. The socket is bored for 41-64 straight shank drills, and a sleeve is provided so that drills with $\frac{1}{2}$ inch straight shank can also be used. One revolution of the crank gives one revolution of the drill. Cut gears are used, and the lower set are boxed in to protect them from dirt.



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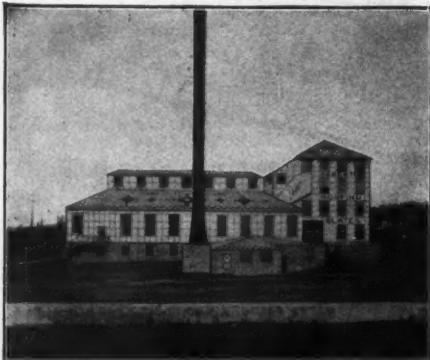
new hole. The gears are made of steel, and cut, and the lower set are cased in to protect them from dirt. The drill socket is bored for 41-64 straight shank drills. The Drill weighs 185 pounds and is easily handled by two men.

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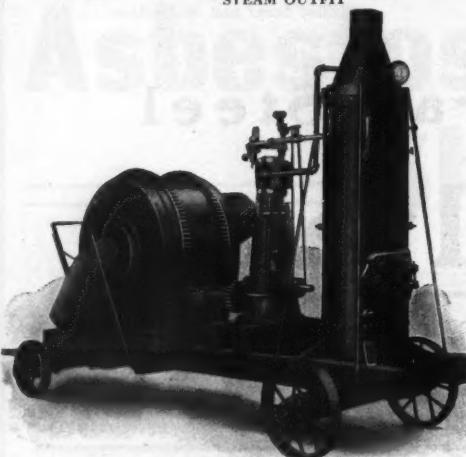
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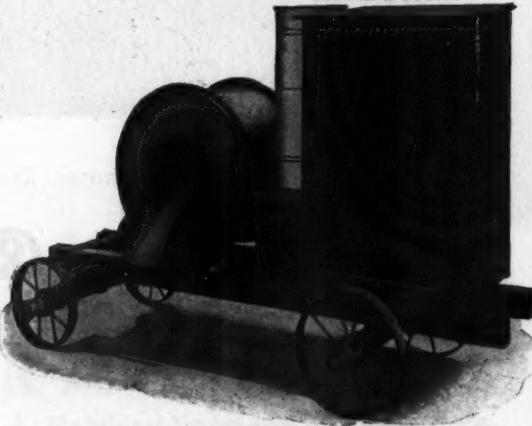
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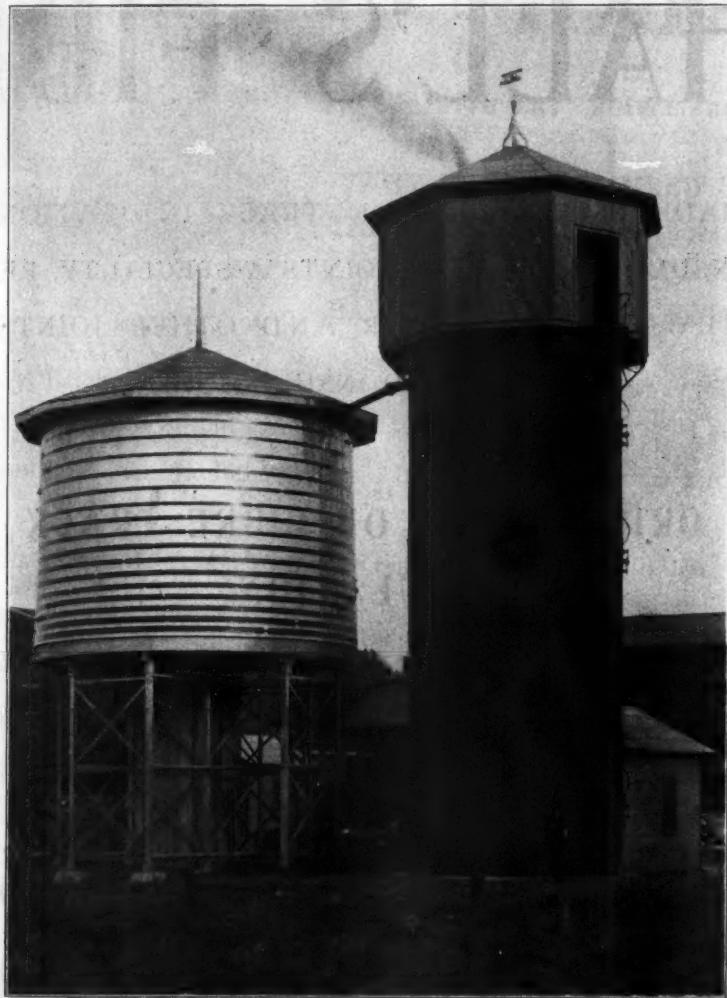
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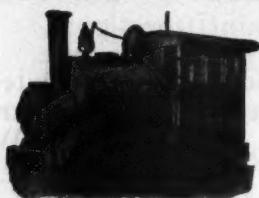
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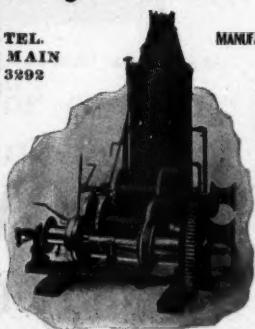
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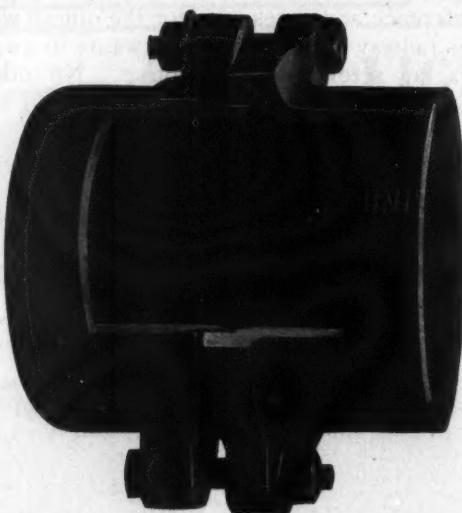


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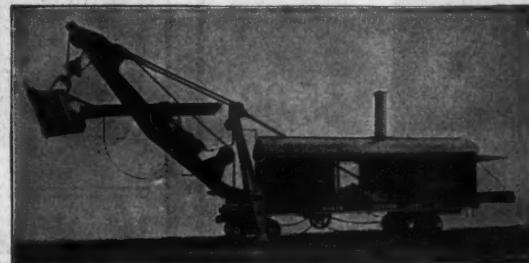
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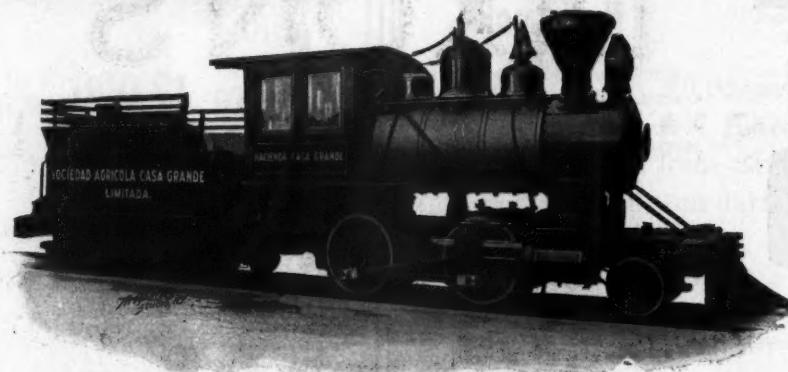
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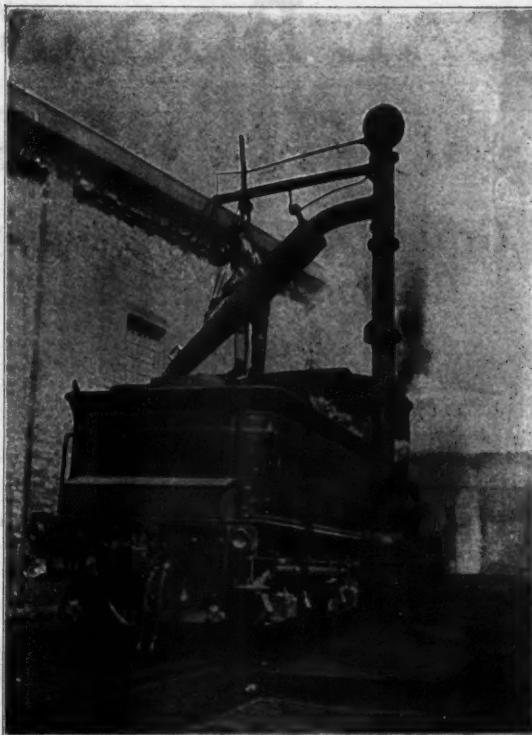
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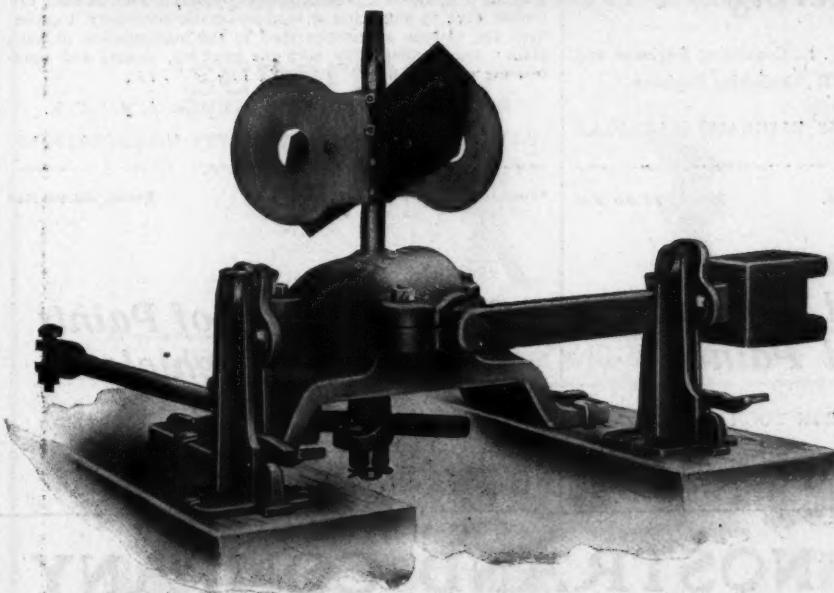
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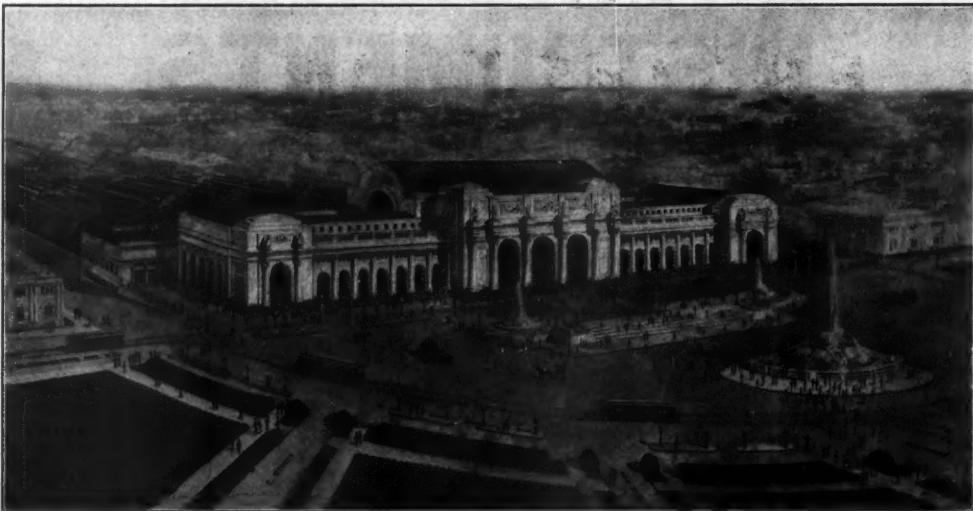
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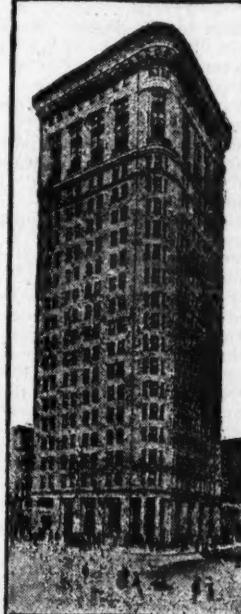
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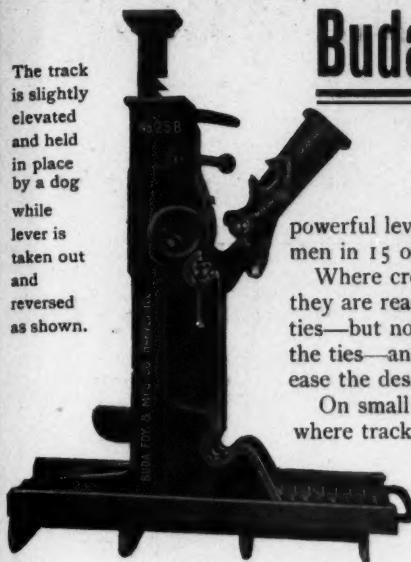
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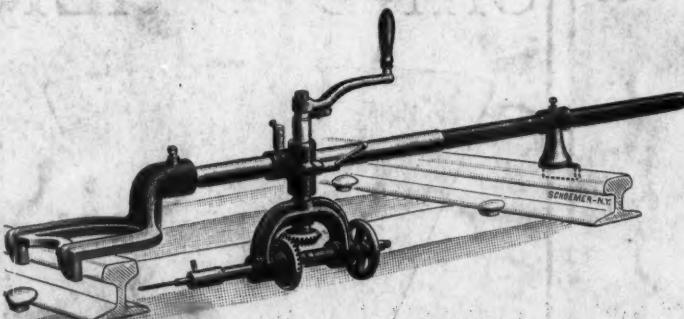
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